

ACAM Flight Report

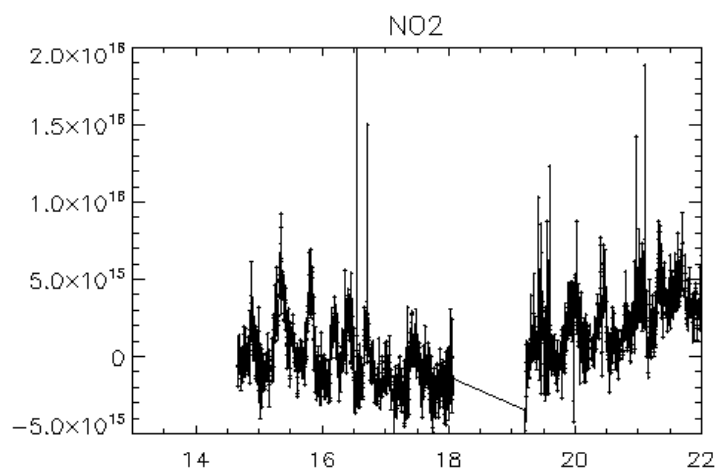
Flight #5 – 07/11/2011

Operations and instrument status

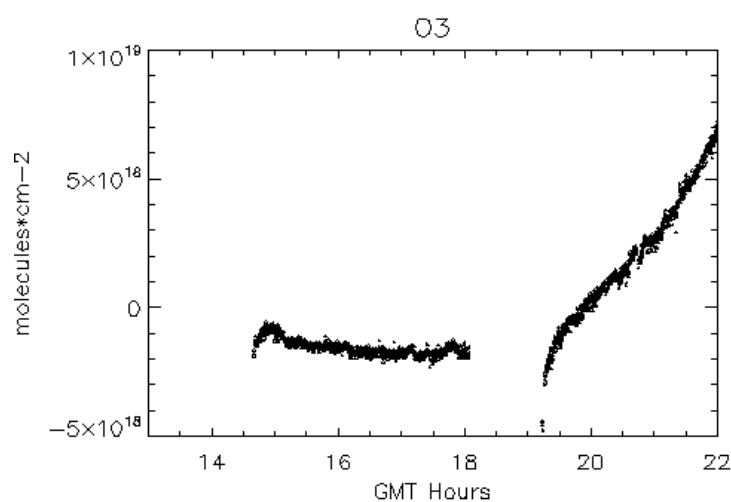
Instrument performance was normal.

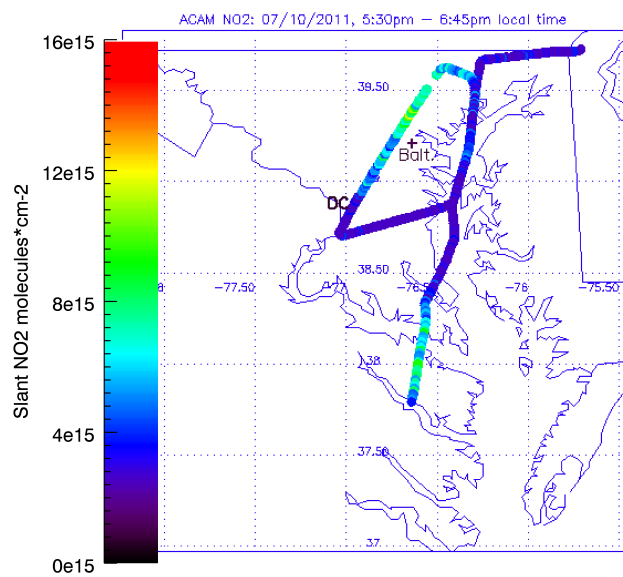
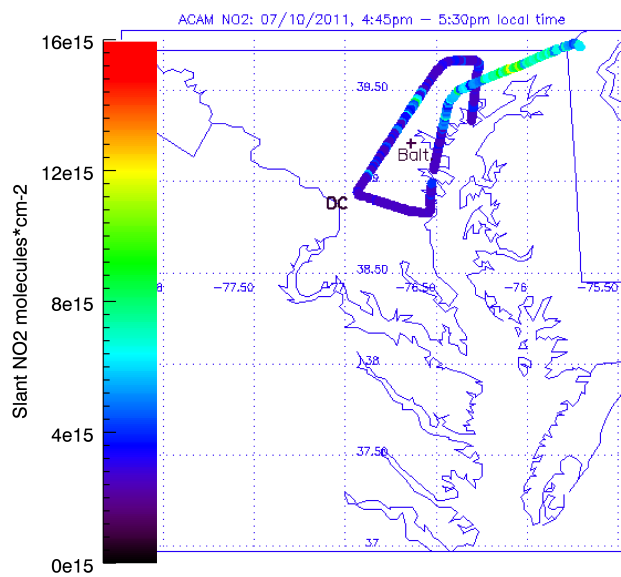
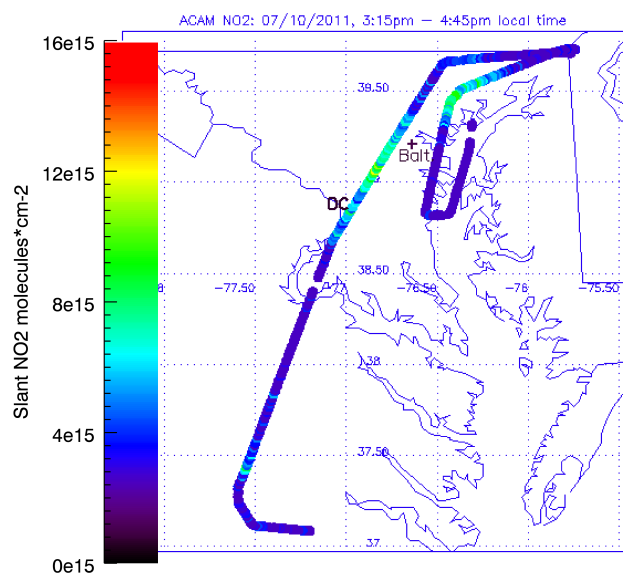
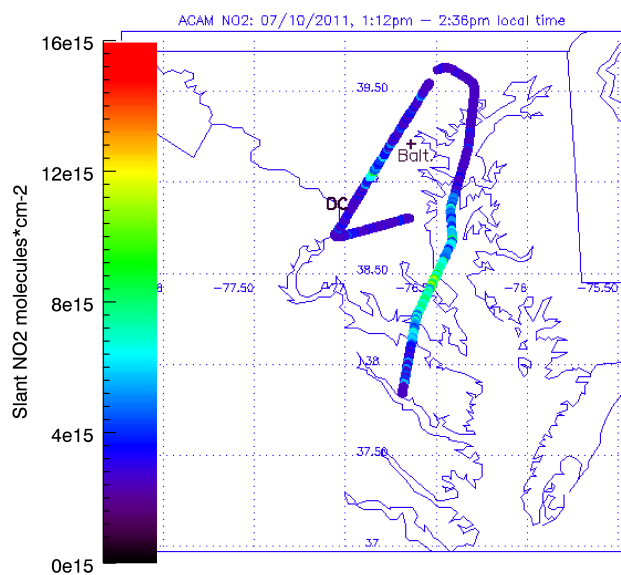
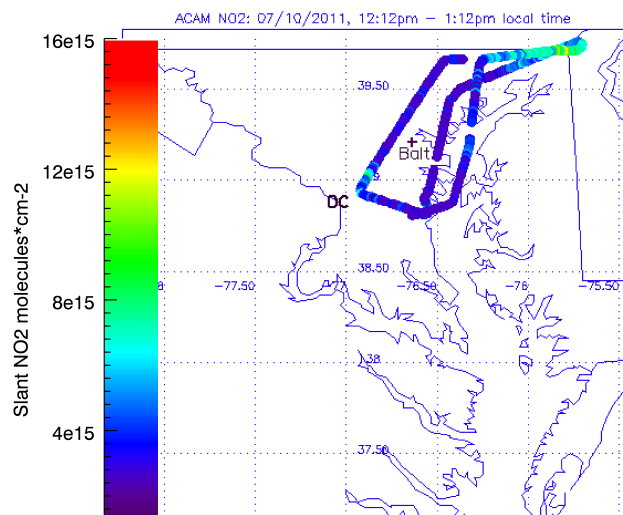
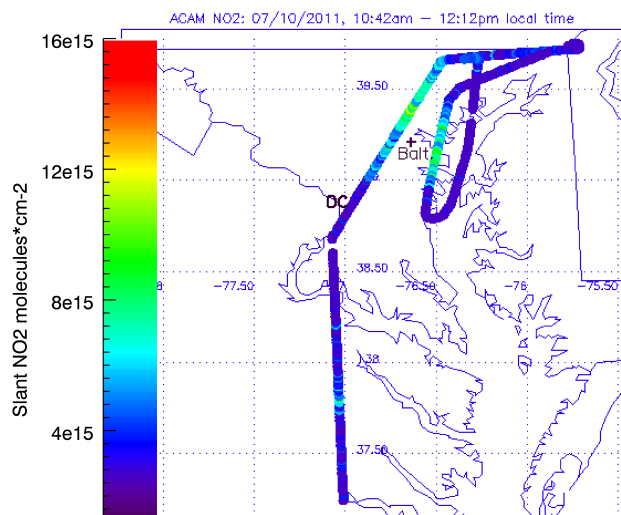
Science Summary

NO₂ measurements are shown below as differential slant column values relative to an average of spectra taken between the periods of 16.8 to 17.2 UTC and 20.6 to 21.0 UTC. Measured values are similar to Flight #4 on the 10th with somewhat more structured variability in the later half of the flight compared to yesterday. In general the NO₂ levels are not as high as was seen during the first 3 science flights, especially in the afternoon. Peak values rarely exceeded 1×10^{16} molec.cm⁻² which is a factor of 2 lower than peak values on the 5th.



Time series plots of NO₂ and O₃.





Preliminary NO₂ data. Swath averaged resolution 7.5km x 1.2km